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(51) INT CL<sup>5</sup>  
G06F 3/033

(52) UK CL (Edition M )  
G4H HTAT H1A H13D H14A H14D  
H4T TBML TCHA TCJA T109 T121 T122 T126 T128  
T130 T143

(56) Documents Cited  
GB 2199169 A GB 2193827 A EP 0302498 A2  
US 5025382 A

(58) Field of Search  
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INT CL<sup>5</sup> G06F

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## (54) A user interface system

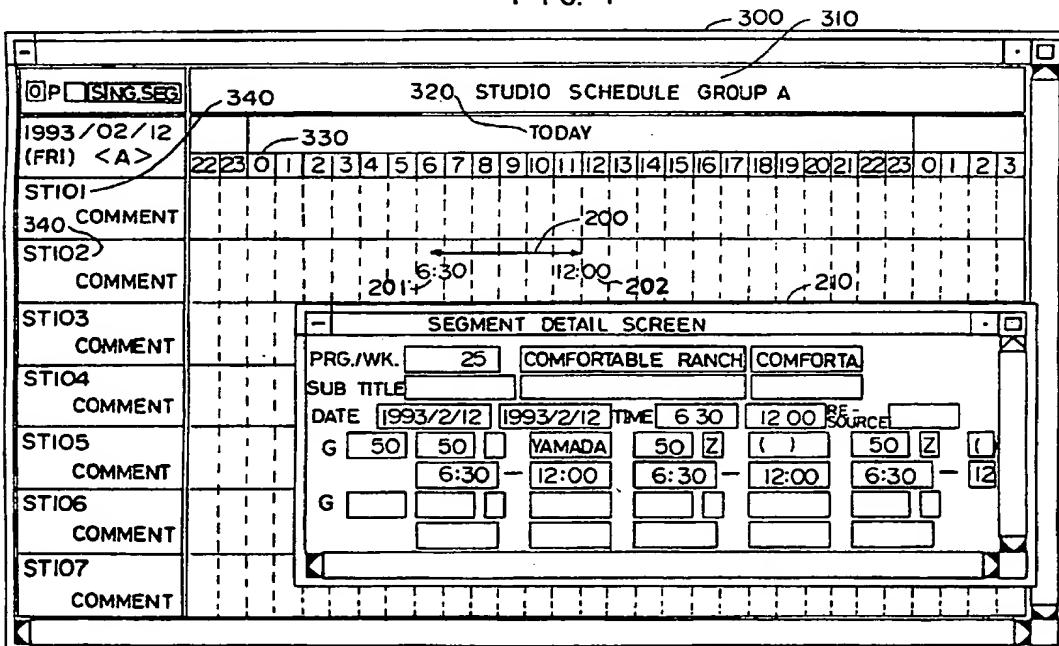
(57) The user interface system inputs a segment 200 by pointing out positions of the display screen with a mouse. The segment has a position and a length to indicate hours or days. The segment editor displays the segment according to the length which is designated by the mouse. The database entry stores the data indicated by the position and the length of the segment as entered data. Additional information for the displayed segment can also be entered.

An area of data which is too long in one direction can be split and displayed in sections in the orthogonal direction.

Data in one window may be repeated in another, sometimes with a different scale.

A number of data items can be scrolled through respective fields simultaneously.

FIG. 7



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FIG. 1

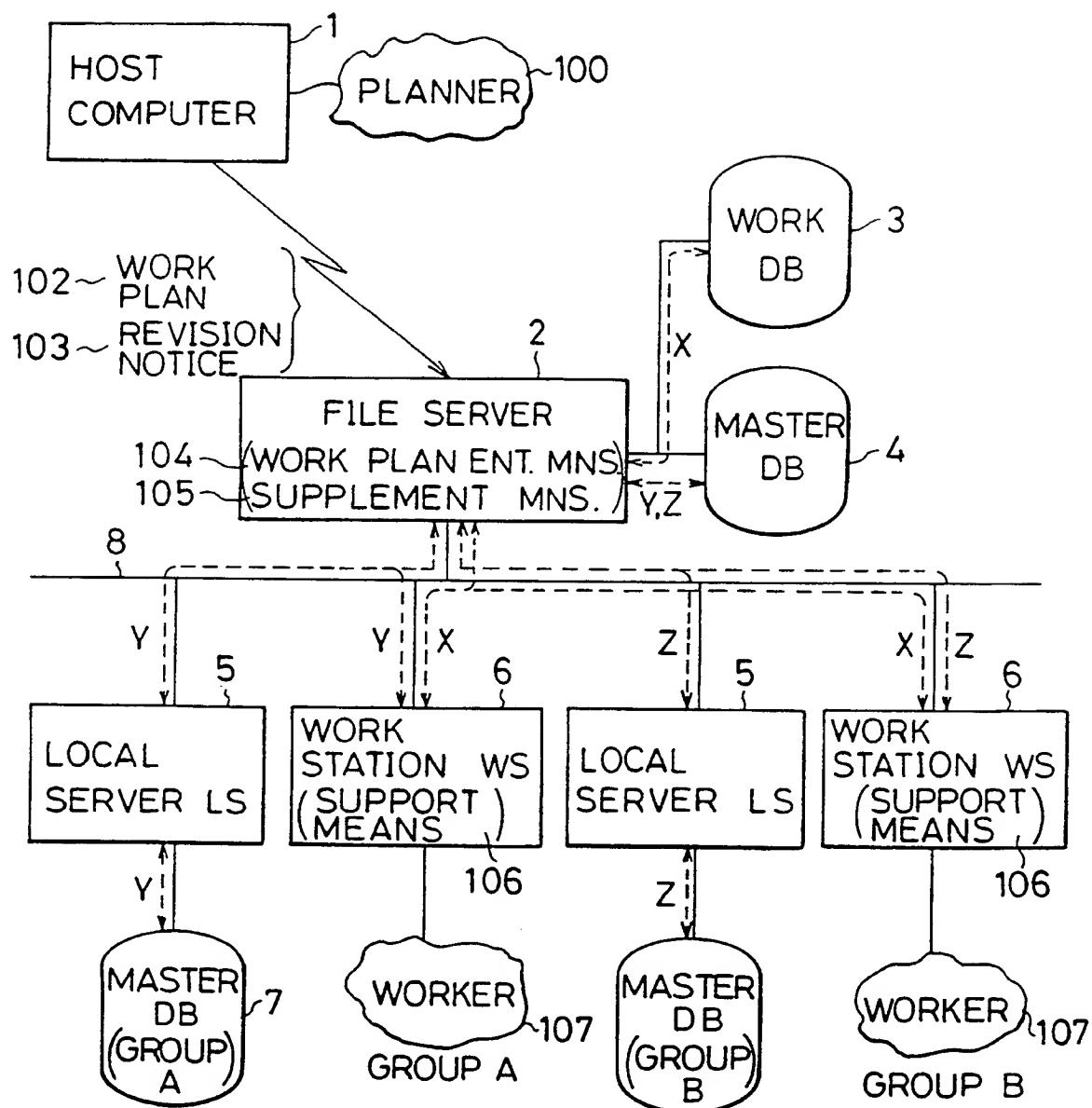


FIG. 2

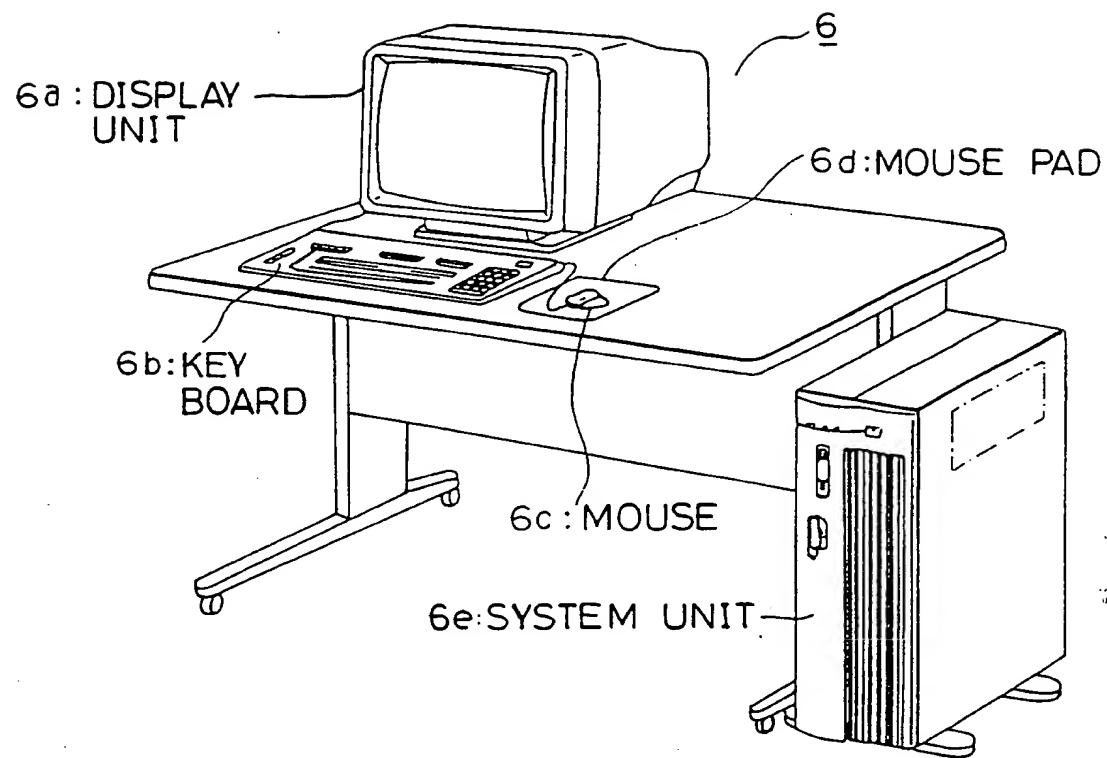


FIG. 3

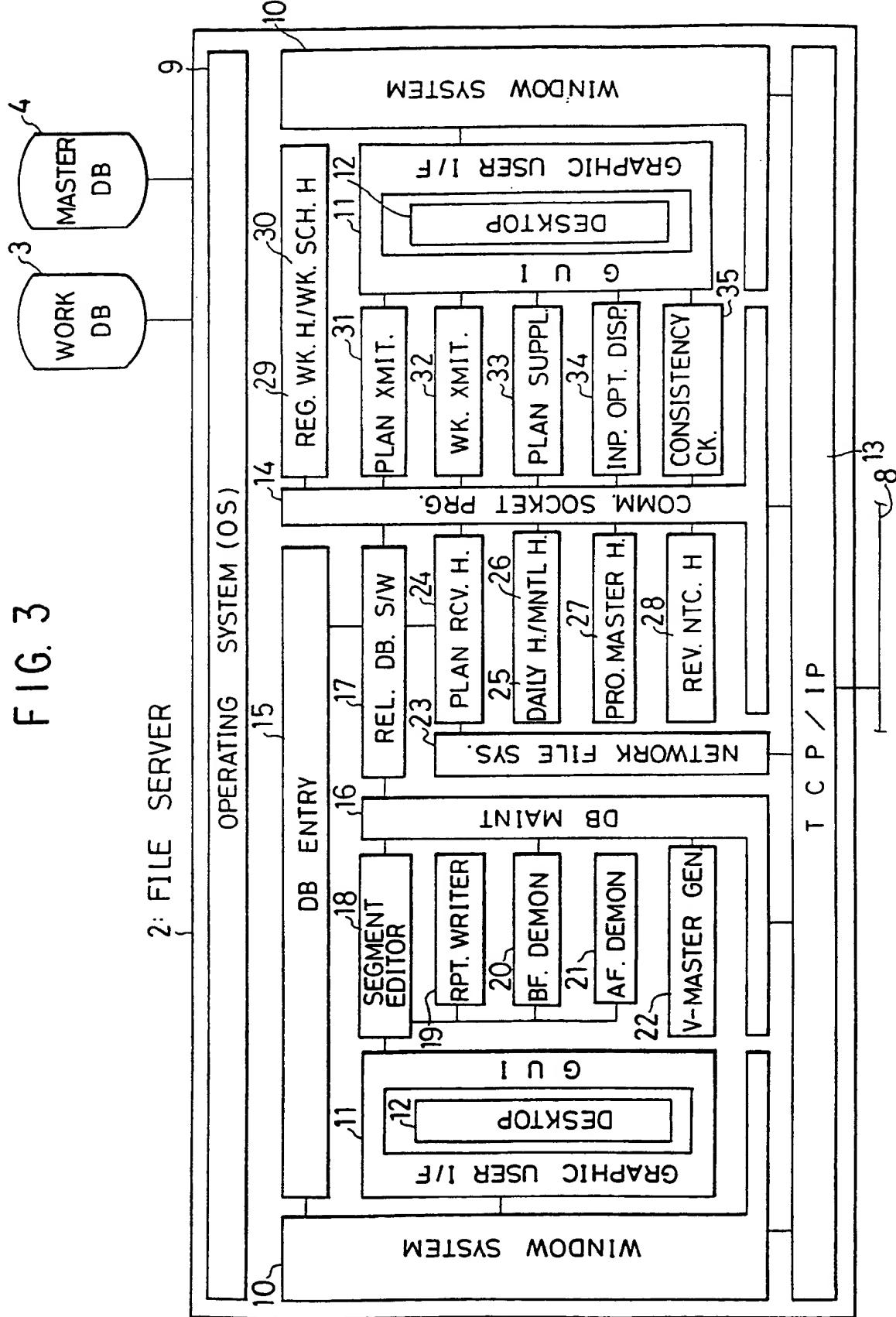


FIG. 4

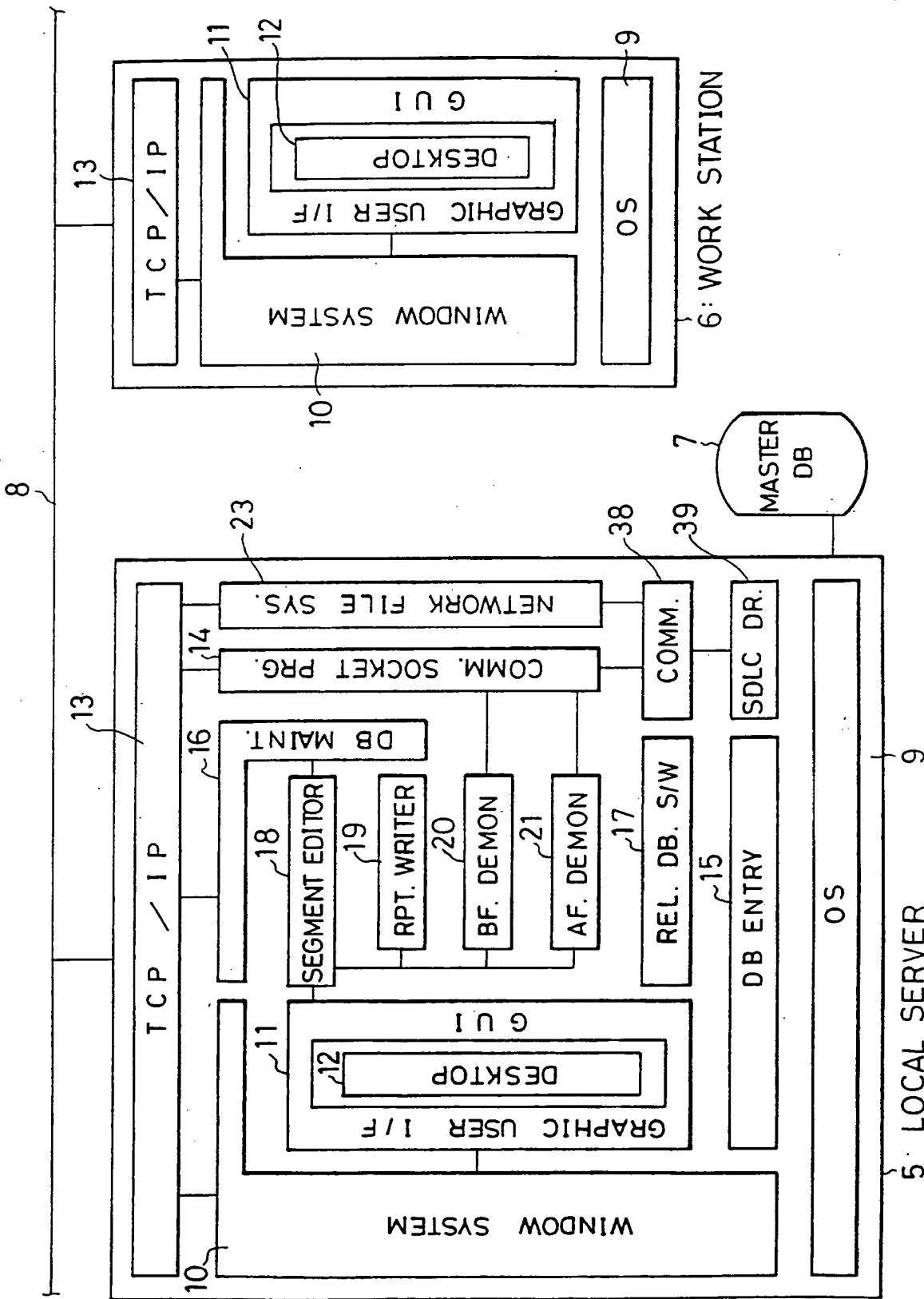


FIG. 5

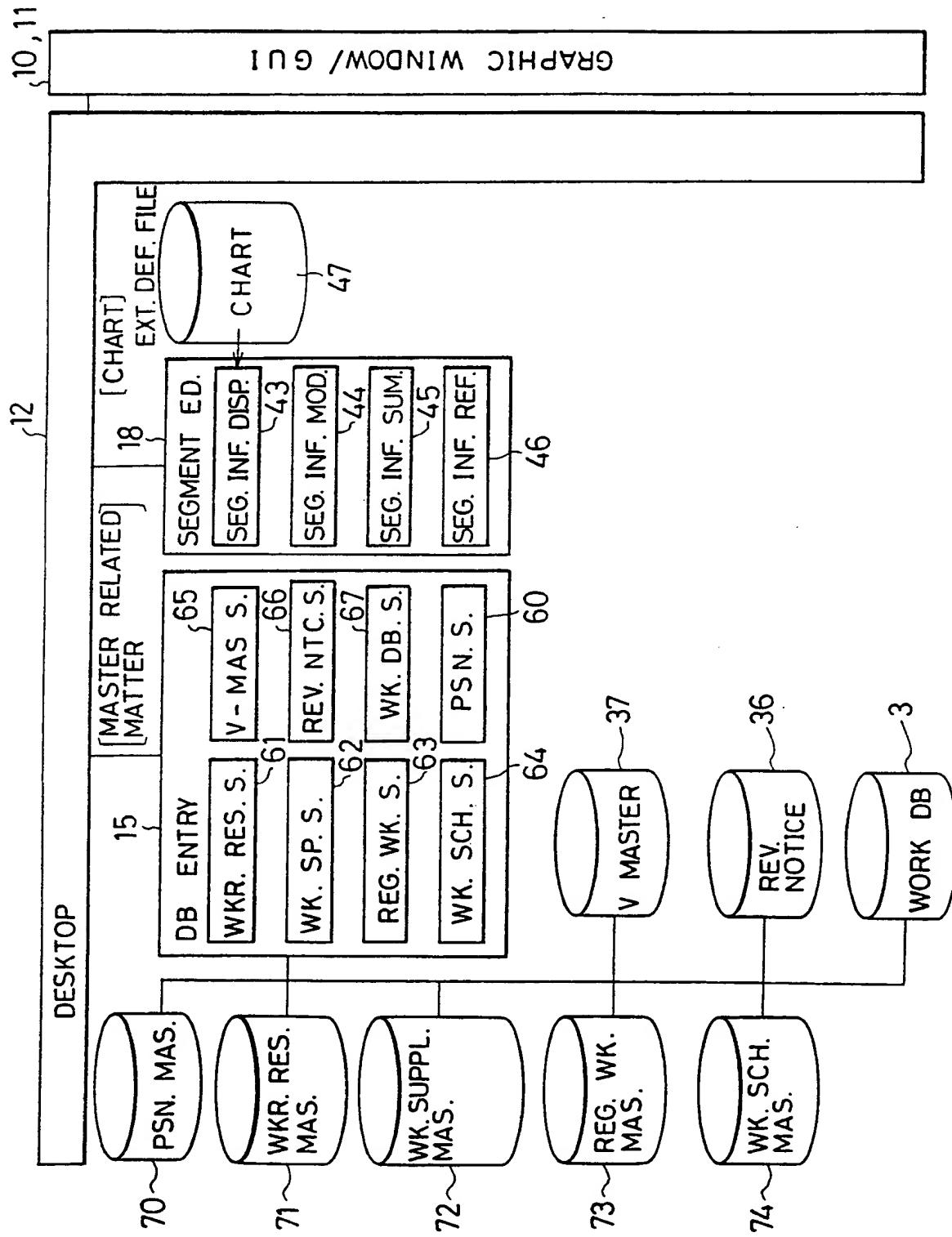
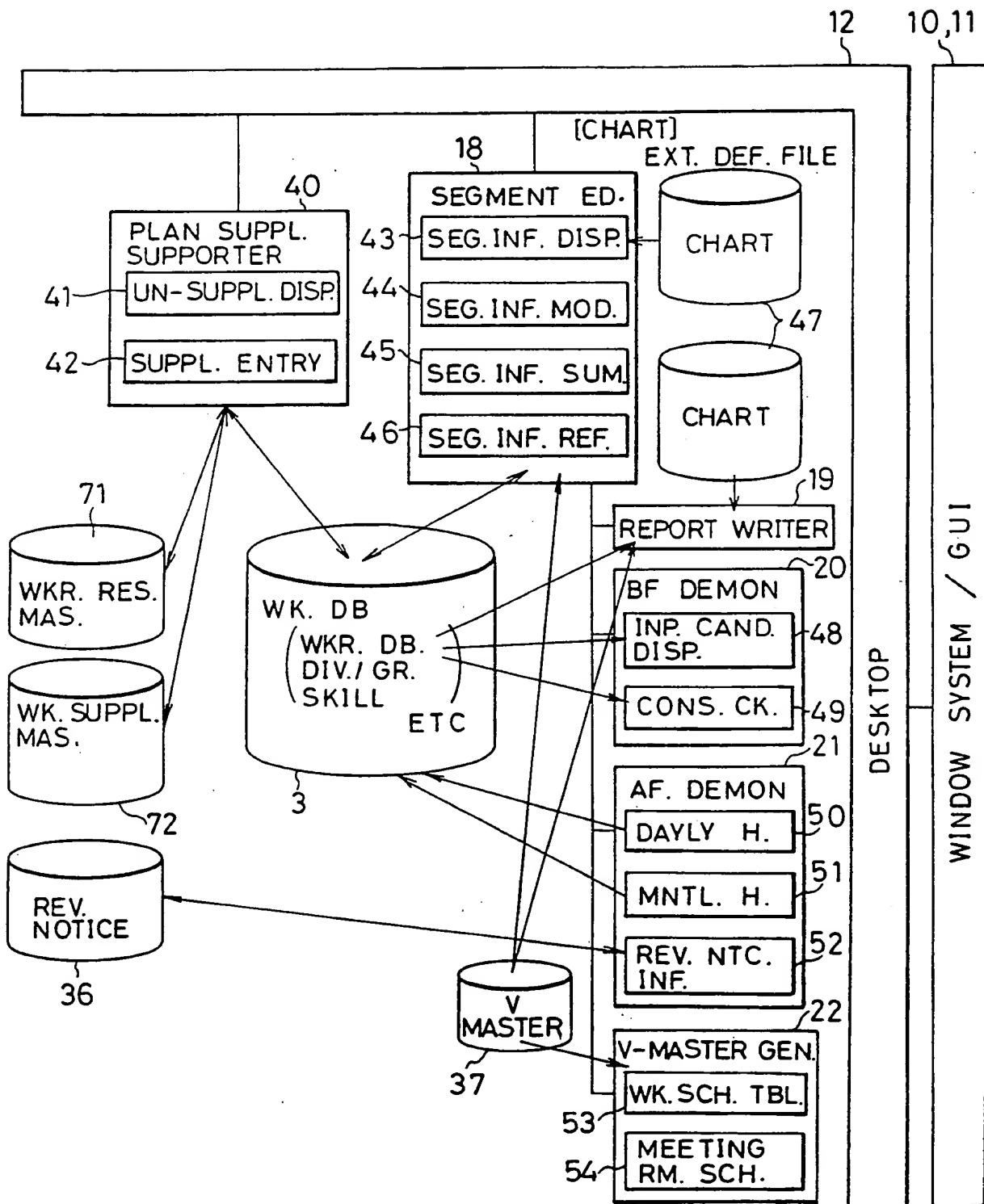


FIG. 6



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FIG. 7

FIG. 8(a)

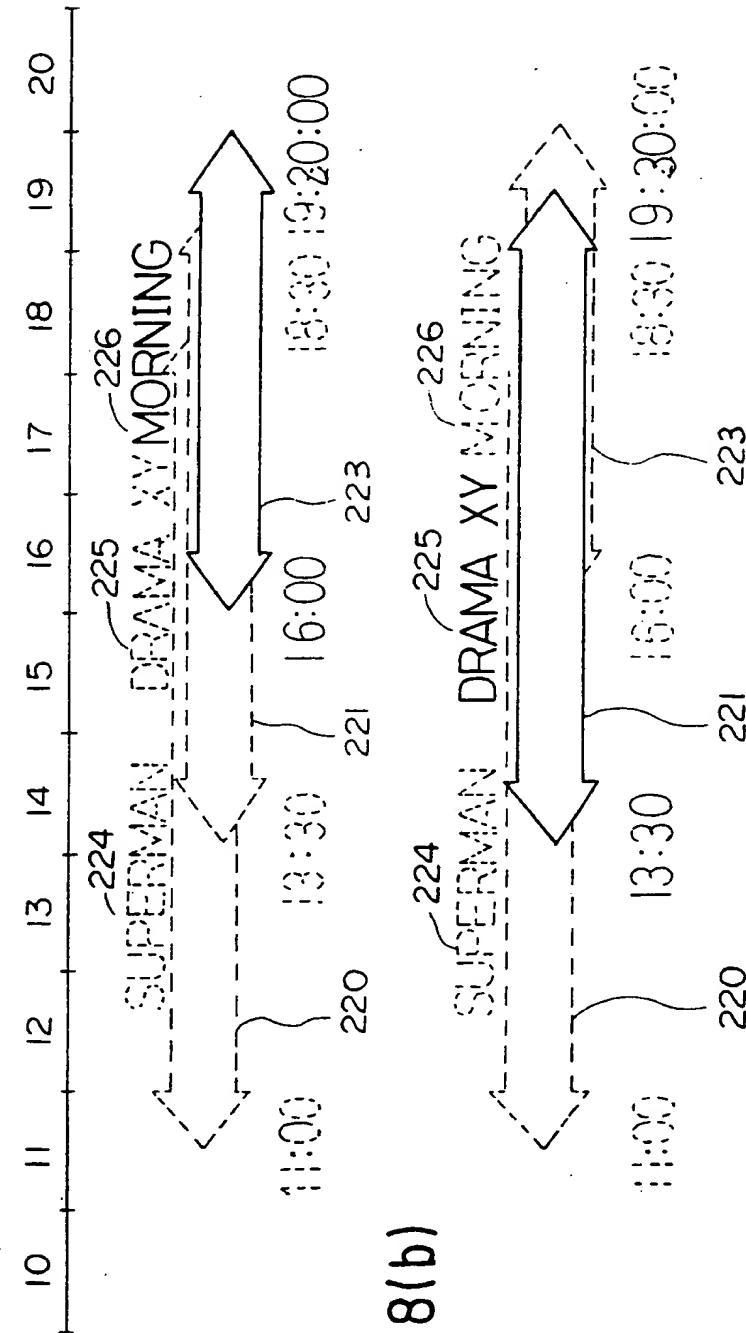
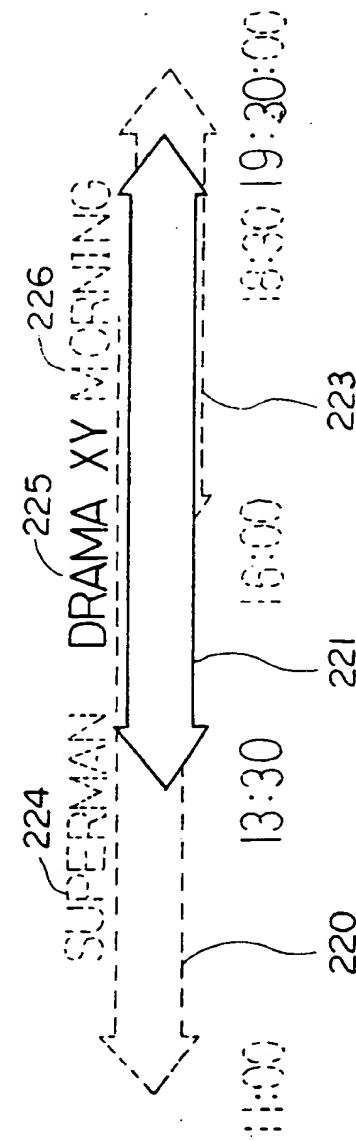


FIG. 8(b)



६  
—  
८

MULTI-ROW DISPLAY (A ROW IN UPPER CHART IS EXPANDED TO THREE ROWS IN LOWER CHART.)

SING. SEG.	WORK SCHEDULE
1993/04/23 (FRI) <B>	TODAY
	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8
B	COMMENT
B	COMMENT
B	COMMENT

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FIG. 10(a)

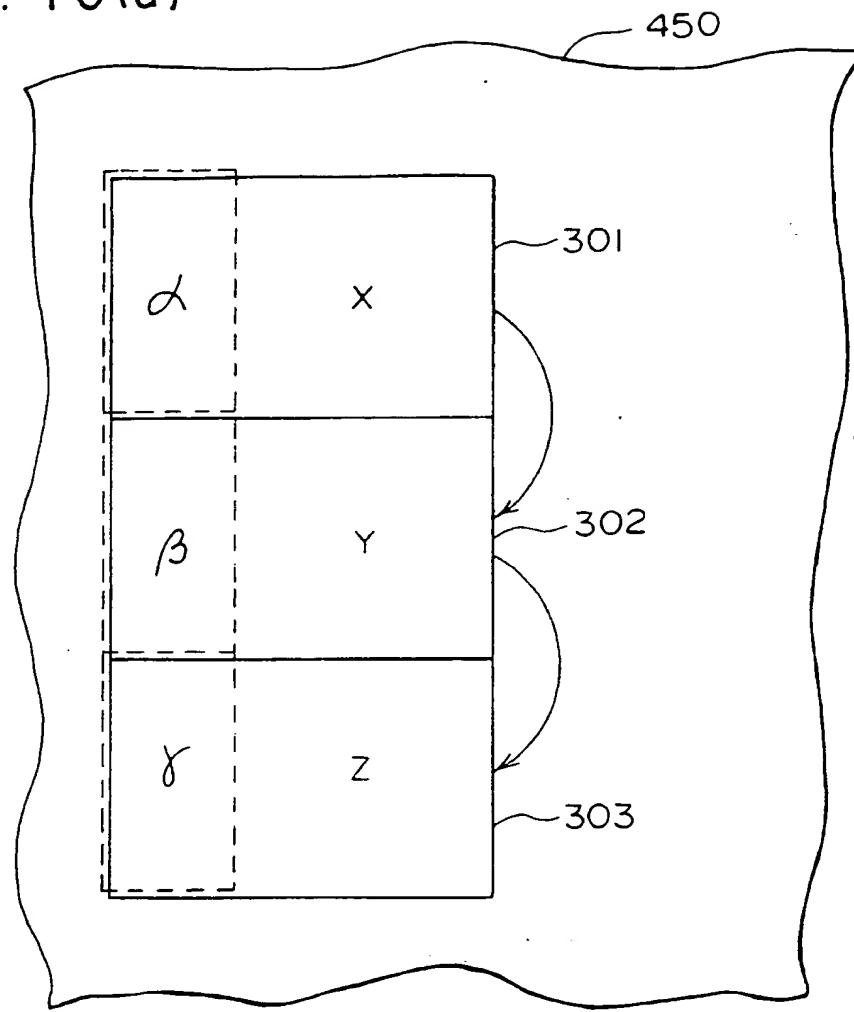


FIG. 10(b) ↓

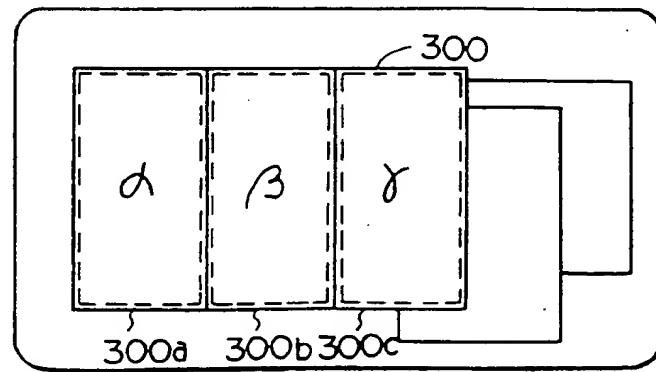


FIG. 11

VERTICAL SEGMENT DISPLAY

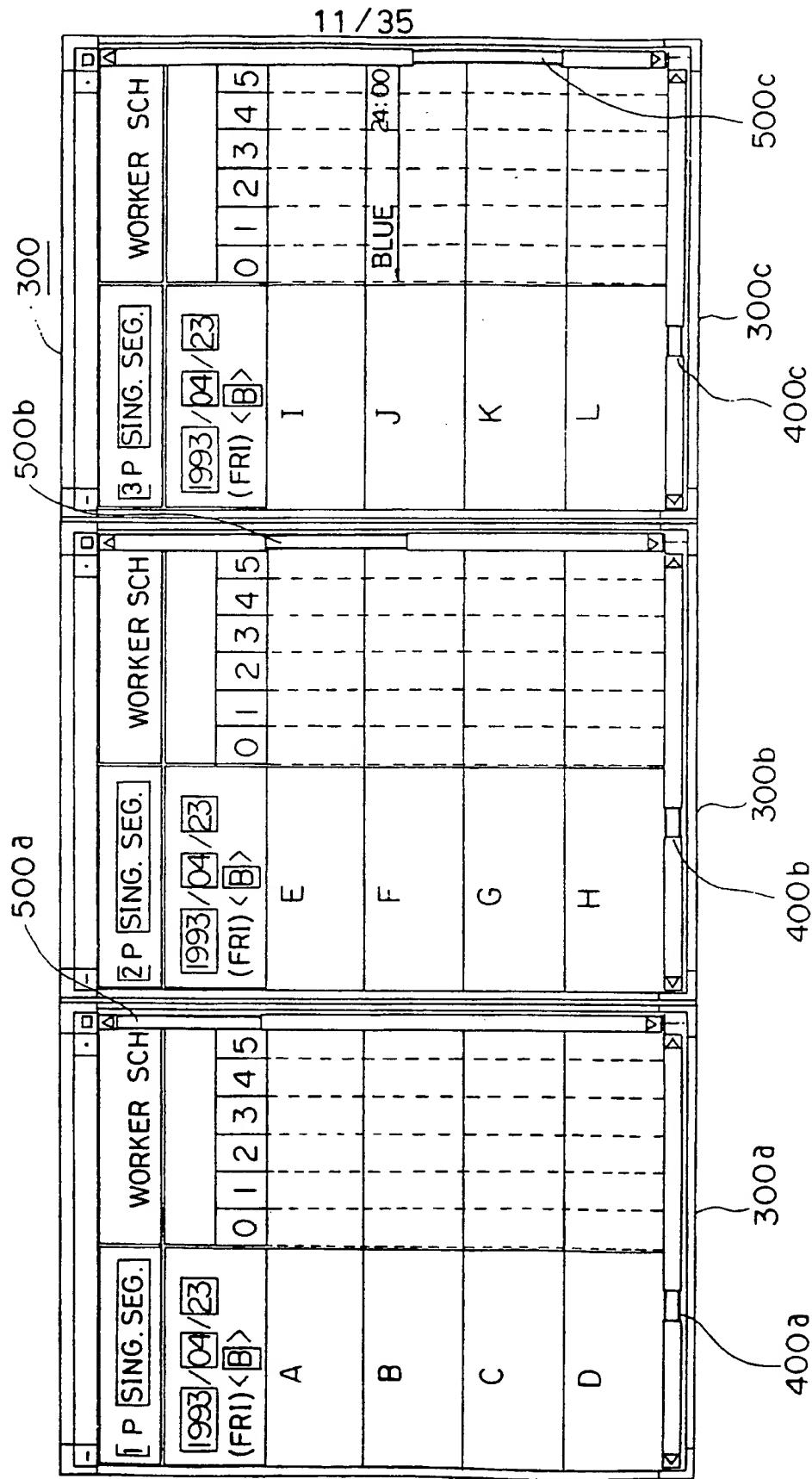


FIG. 12

VERTICAL SEGMENT DISPLAY THREE CHARTS SCROLLS SYNCHRONOUSLY BY SLIDING ONE OF SCROLL BARS DISPLAYED AT THE BOTTOM OF THE CHARTS.

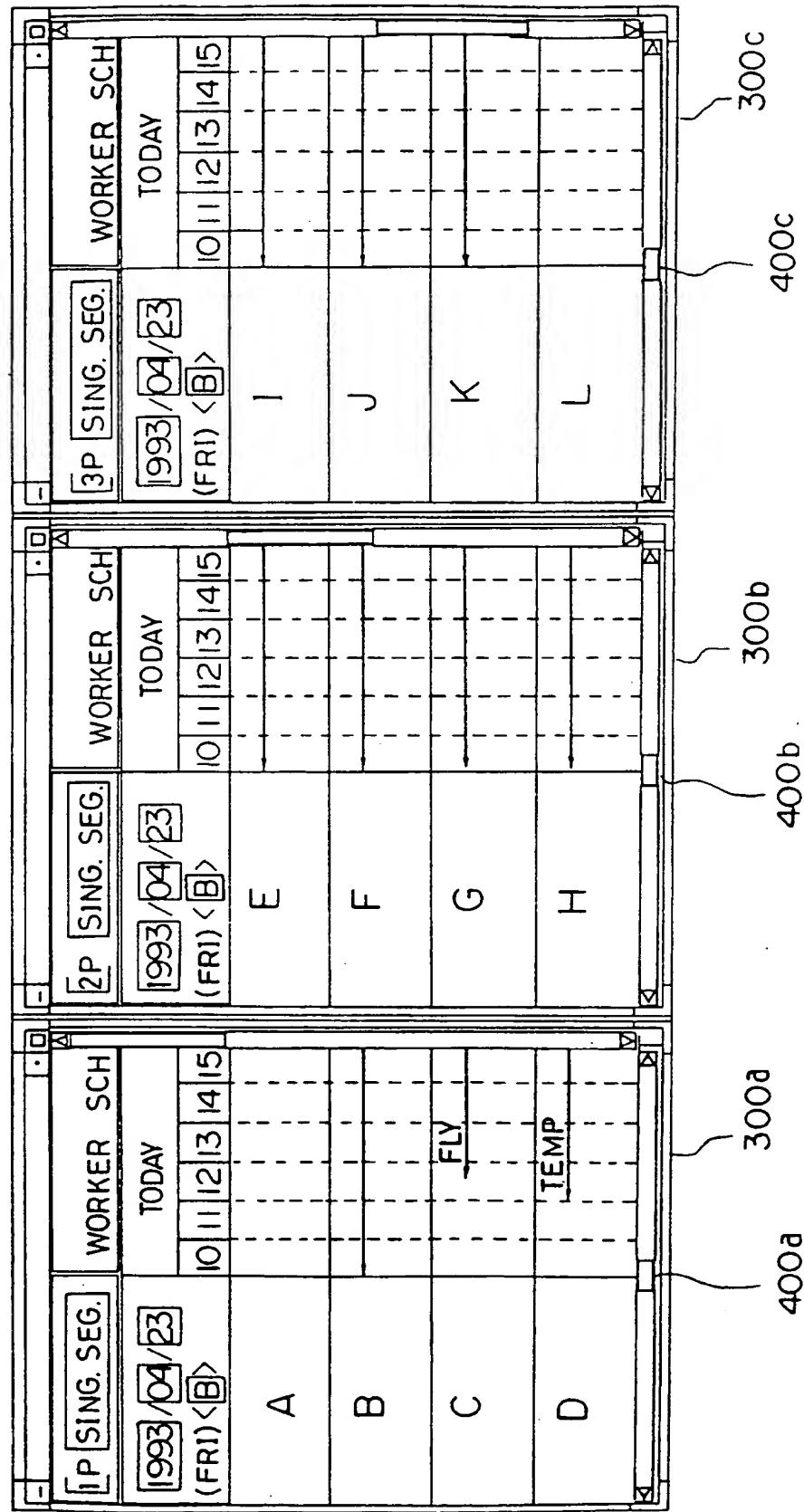


FIG. 13

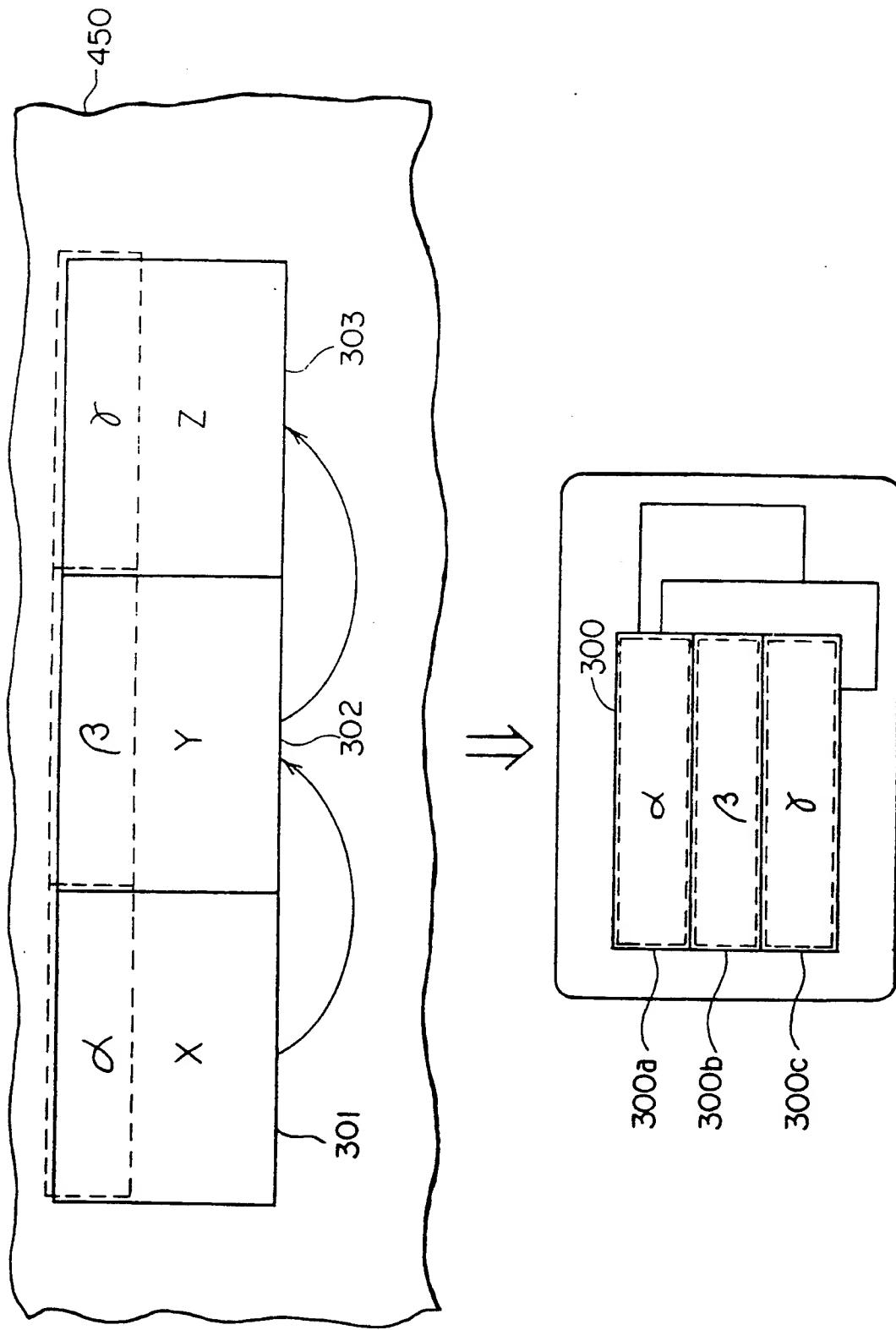


FIG. 14

HORIZONTAL SEGMENT DISPLAY

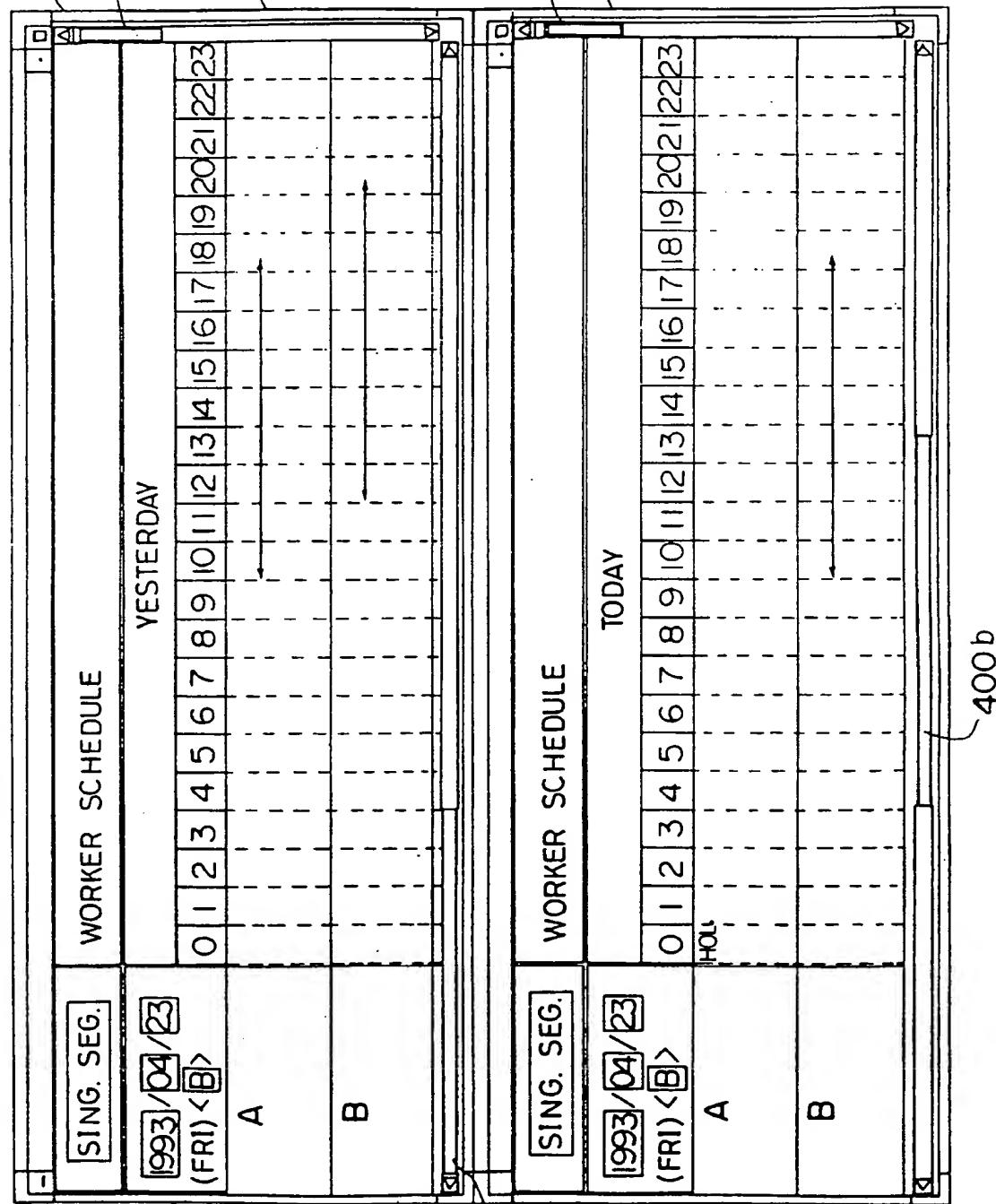
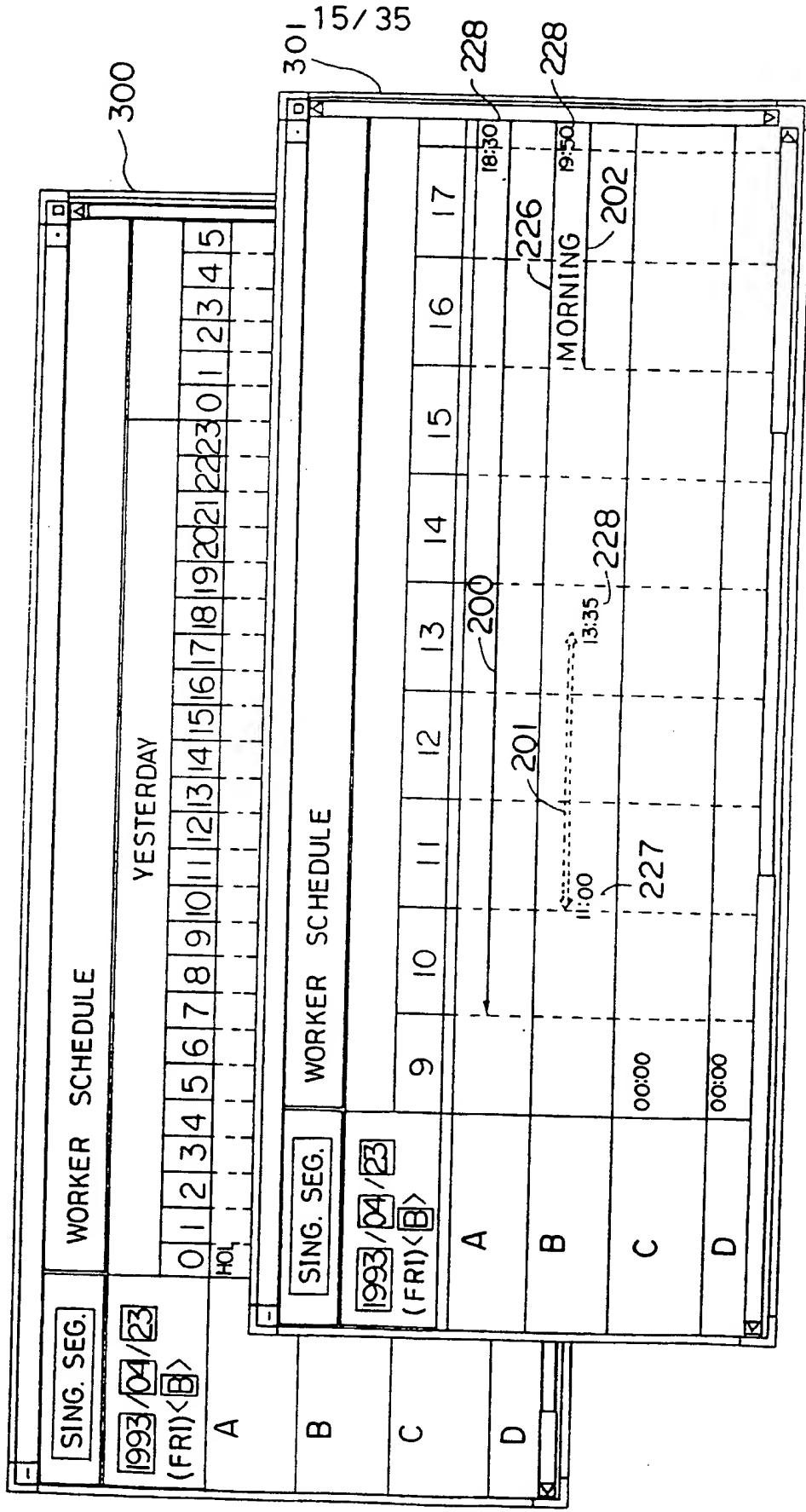


FIG. 15

SCALE ENLARGEMENT



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FIG. 16(a)

MONTHLY CHART — DAILY CHART

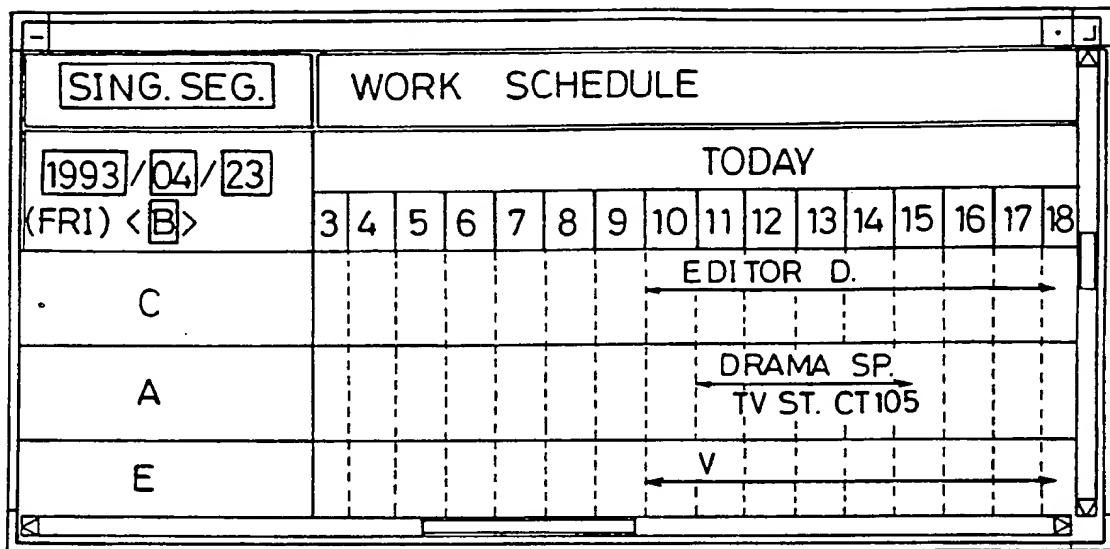


FIG. 16(b)

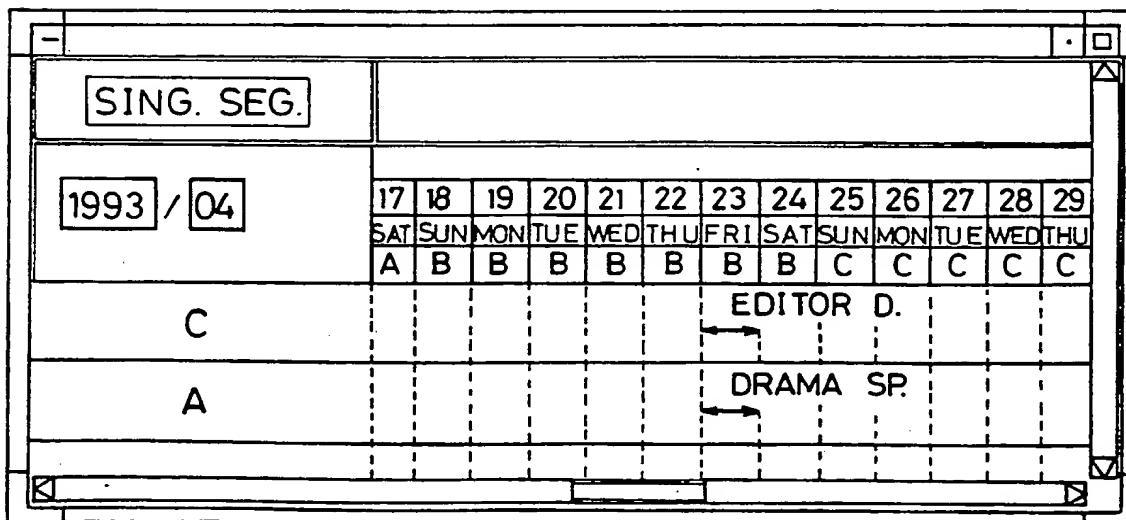


FIG. 17

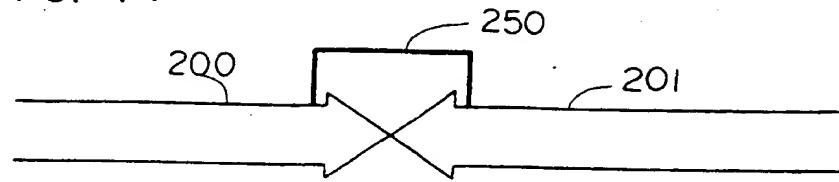


FIG. 18(a)

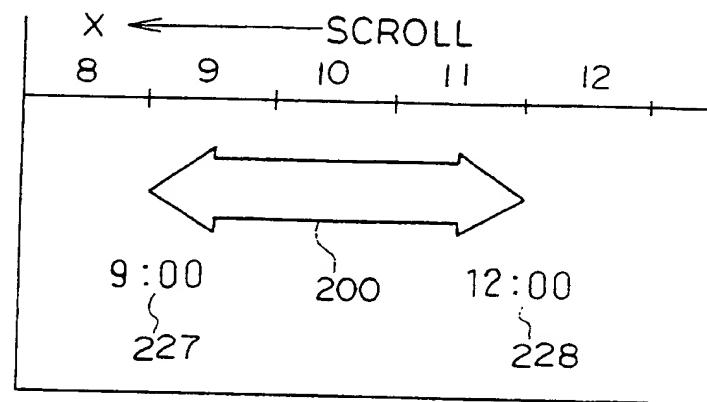
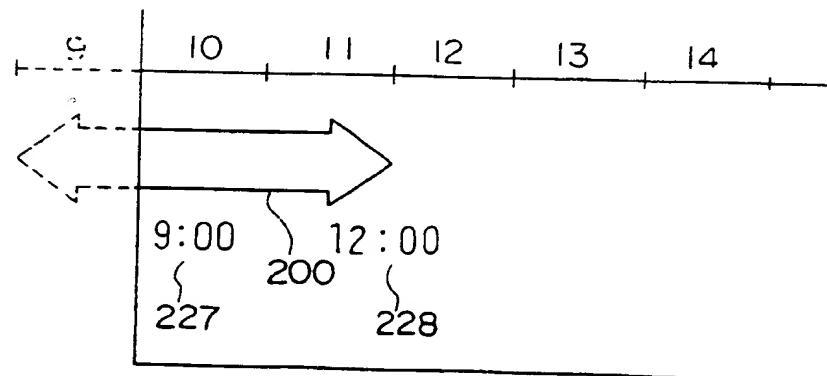


FIG. 18(b)



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FIG. 19

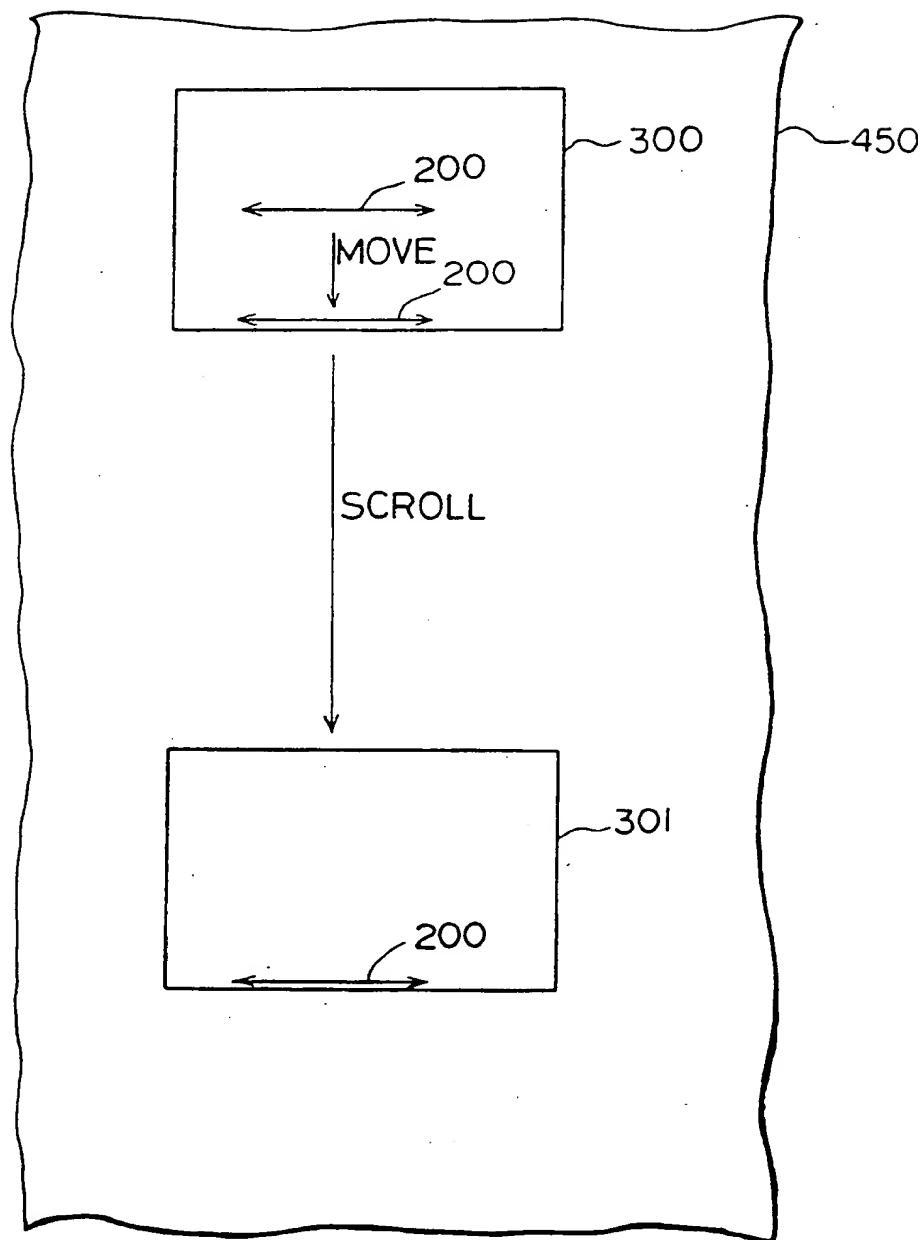


FIG. 20

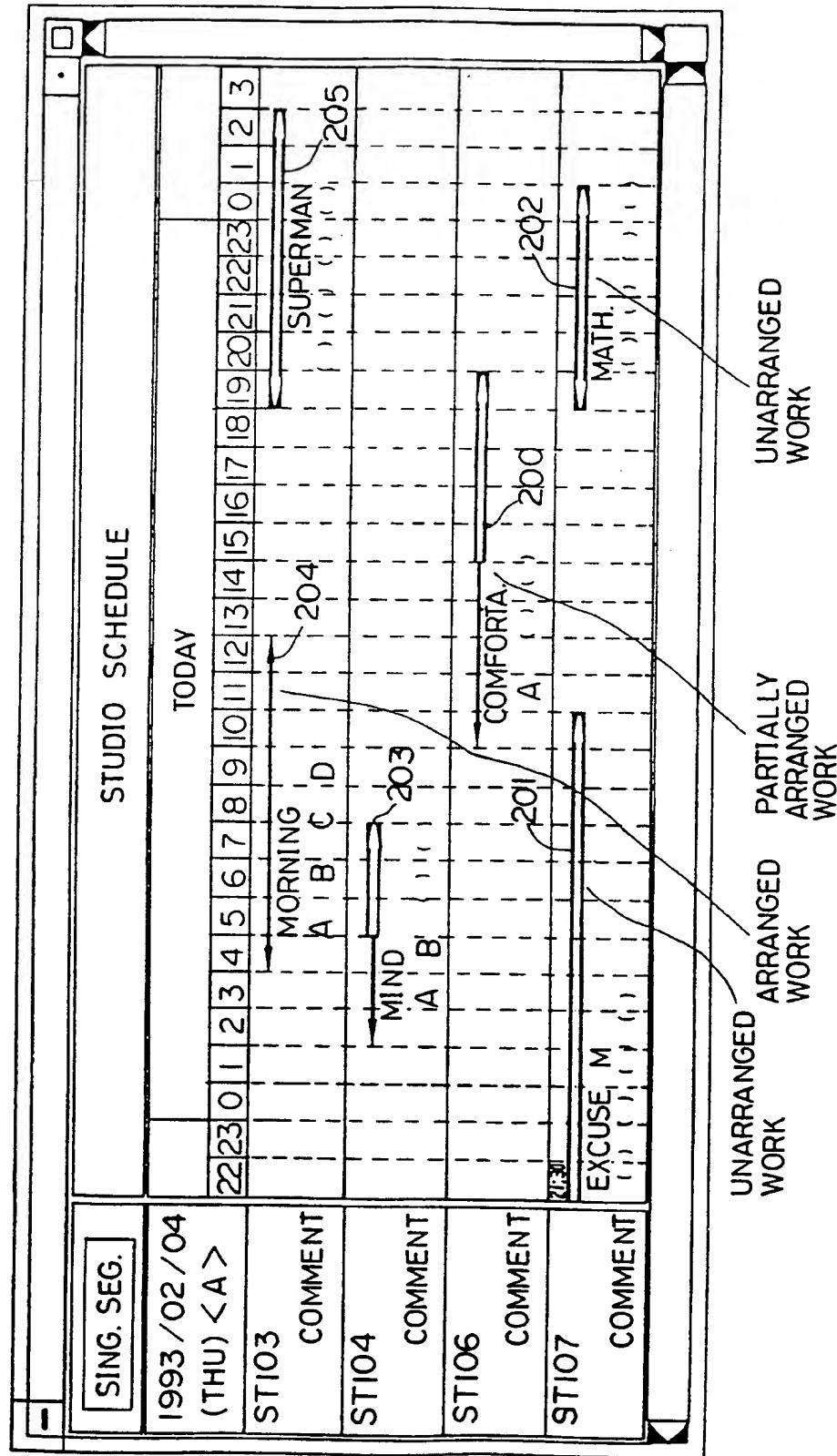


FIG. 21(a)

DEAR OLD MUSIC

FIG. 21(b)

[DEAR OLD M] ~ 600

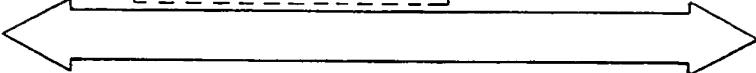


FIG. 21(c)

[AR OLD MUS] ~ 600

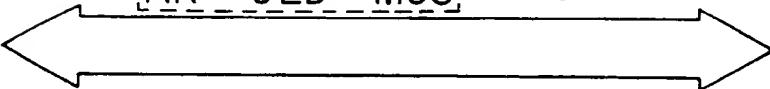


FIG. 21(d)

[OLD MUSIC] ~ 600

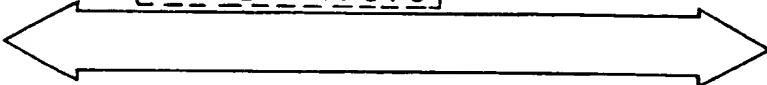
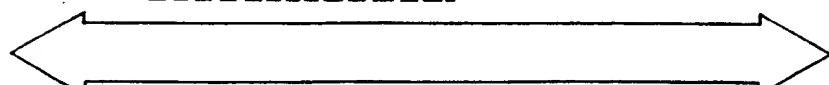


FIG. 22(a) YAMADA SUZUKI KAWAGUCH YOSHIDA

DEAR OLD M ~ 600

FIG. 22(b)



[YAMADA] [SUZUKI] [KAWAGU] ~ 610

601

602

603

FIG. 22(c)

[MADA] [ZUKI] [WAGUCH]

FIG. 22(d)

[DA] [KI] [GUCHI]

FIG. 22(e)

[SU] [KA] [YO]

FIG. 22(f)

[SUZU] [KAWA] [YOSH]

FIG. 22(g)

[SUZUKI] [KAWAGU] [YOSHID]

FIG. 22(h)

[ZUKI] [WAGUCH] [SHIDA]

# FIG. 23

## MULTI-SEGMENT MOVEMENT

SEG. MOV.		WORK SCHEDULE																											
1993/04/23 (FRI) <0>		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
A	COMMENT																												
B	COMMENT																												
C	COMMENT																												
D	COMMENT																												
E	COMMENT																												
F	COMMENT																												
G	COMMENT																												

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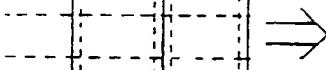
FIG. 24(a)

(a) : ROW EXCHANGING

ROW EXCH.		WORK SCHEDULE																								
1993/04/23 (FRI)<B>		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2
A																										
B																										
C																										

FIG. 24(b)

ROW EXCH.		WORK SCHEDULE																								
1993/04/23 (FRI)<B>		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2
A																										
B																										
C																										



(b) : RESULT OF ROW EXCHANGE

# FIG. 25

## WORKER CANDIDATES SELECTION

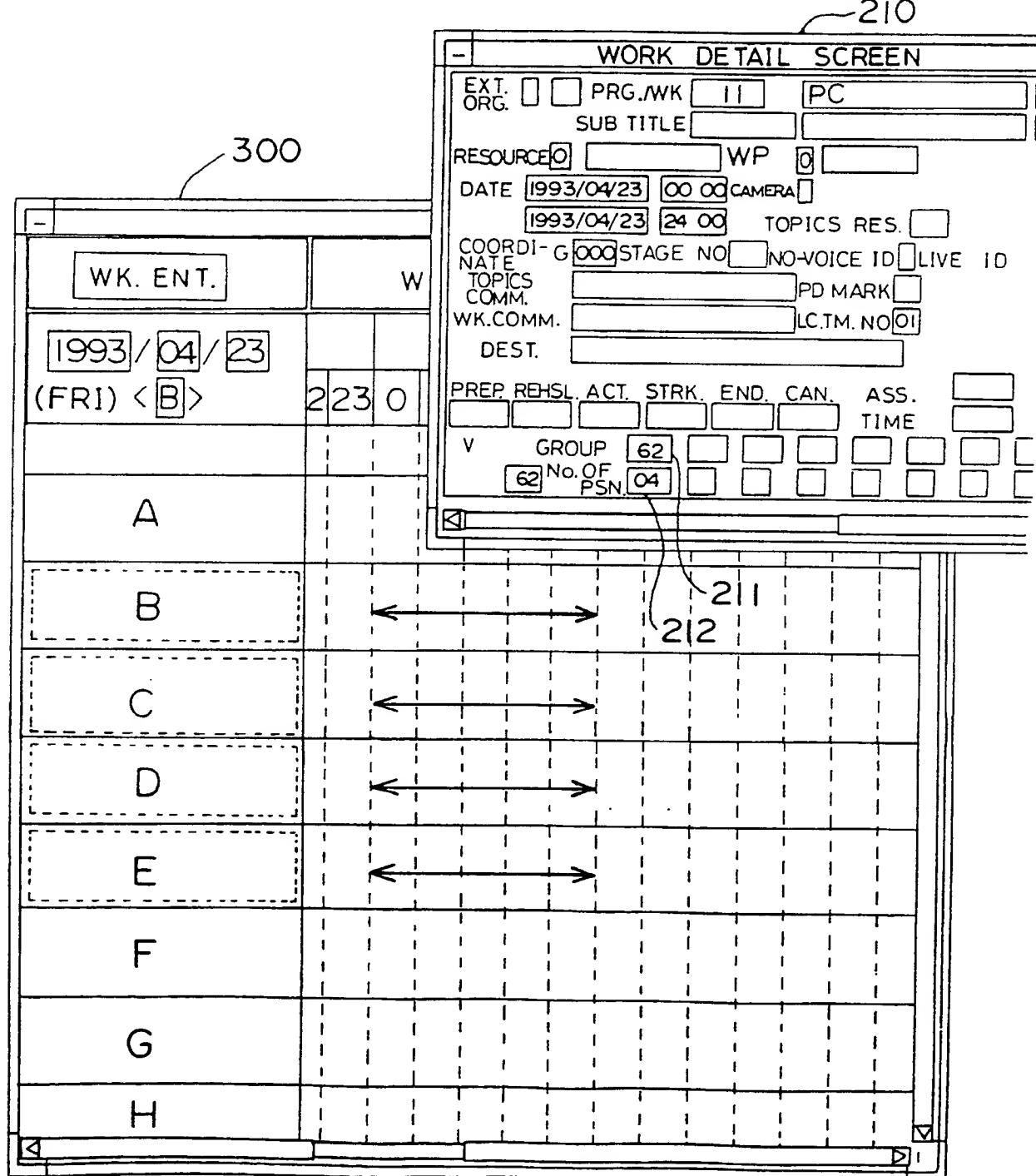
SING. SEG.		SCHEDULE																												
993	04/23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4
(FRI) <B>																														
ST101																														
ST102		200																												
ST111		300																												
301																														
24/35																														

- SEARCHING: REQUEST ±1 HOUR

GROUP NAME	REG. TIME	END TIME	WORK
GROUP A AKIYAMA	10:00	12:30	
GROUP A YAMADA			

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FIG. 26

WORK ENTRY  
(CONTINUOUS WORK ENTRY FOR 4 WORKERS)



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FIG. 27

CONTINUOUS WORK EDITING  
"MASUI MAINT." IS KEPT IN "WK. COMM."  
FOR NEXT SCREEN AFTER ENTRY OF  
"WK. COMM." 230

- 230

300

WORK DETAIL SCREEN										
EXT. ORG.	<input type="checkbox"/>	<input type="checkbox"/>	PRG./WK	08	STAY					
SUB TITLE										
RESOURCE	0	WP			0					
DATE	1993/04/23	00 00	CAMERA							
1993/04/23	24 00	TOPICS RES.			<input type="checkbox"/>					
COORDINATE	G000	STAGE NO.			<input type="checkbox"/>	NO-VOICE ID	<input type="checkbox"/>	LIVE ID	<input type="checkbox"/>	W.K. CO
TOPICS COMM.				PD MARK						
W.K. COMM.	MASUI MAINT.			LC.TM.NO01						
DEST.										CORRS.
PREP. REHSL.	ACT.	STRK.	END.	CAN.	ASS.				TIME	COST
V	GROUP 62									
62	No. OF PSN 01									W.K.R. OP
A										
B										
C										
D										
E										
F										
G										15 30
H										

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## FIG. 28

CONTINUOUS WORK ENTRY  
SAME COMMENT IS KEPT IN "WK. COMM." FOR  
NEXT SCREEN.

230

300

WORK DETAIL SCREEN

EXT. <input type="checkbox"/>	<input type="checkbox"/>	PRG./WK	016	HV		
ORG. <input type="checkbox"/>						
SUB TITLE						
RESOURCE <input type="checkbox"/>		WP	<input type="checkbox"/>			
DATE	1993/04/23	00 00	CAMERA			
	1993/04/23	24 00		TOPICS RES.	<input type="checkbox"/>	
COORDI- NATE	G000	STAGE NO.	<input type="checkbox"/>	NO-VOICE ID	<input type="checkbox"/>	LIVE ID <input type="checkbox"/>
TOPICS COMM.				PD MARK	<input type="checkbox"/>	WK. CO
WK. COMM.	MASUI MAINT.			LC. TM.NOOI		
DEST.						CORRS.
PREP. REHSL. ACT. STRK. END. CAN.				ASS.	<input type="checkbox"/>	COST
					TIME	
V	GROUP					WKR. OP
62	No. OF PSN					

A COMMENT

B COMMENT

C COMMENT

D COMMENT

E COMMENT

F COMMENT

G COMMENT

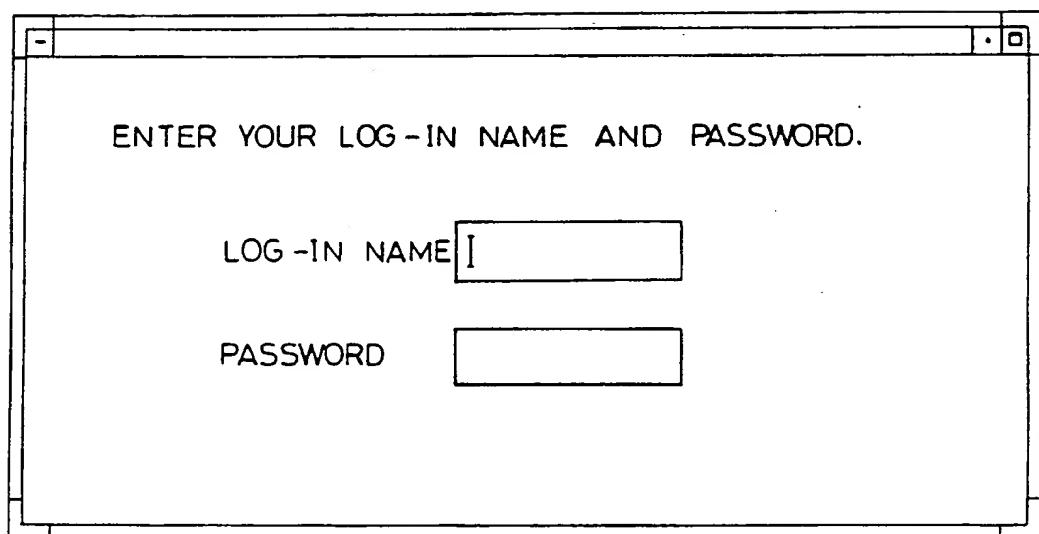
H COMMENT

15,30

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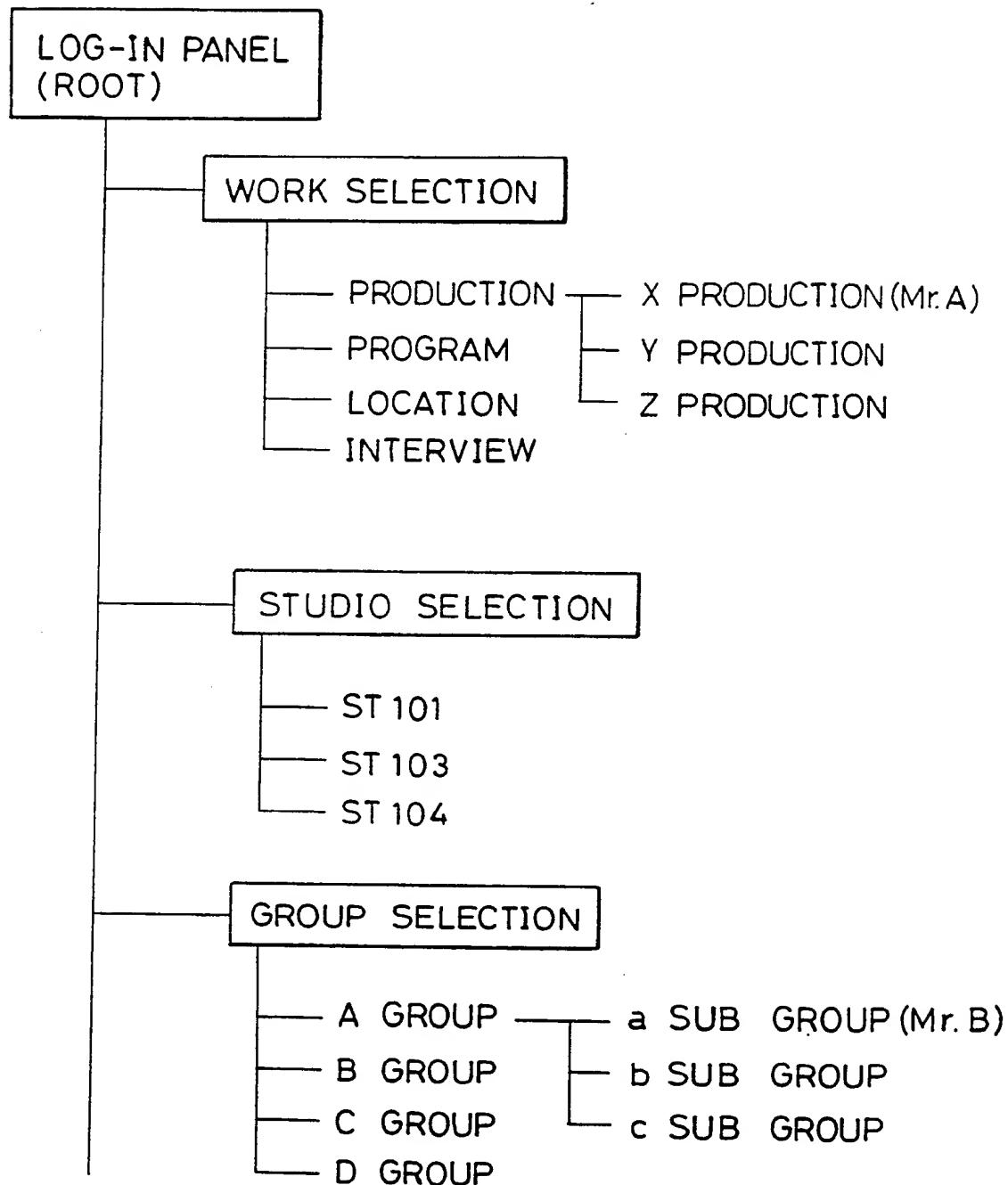
FIG. 29

LOG-IN PANEL



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FIG. 30



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FIG. 31(a)

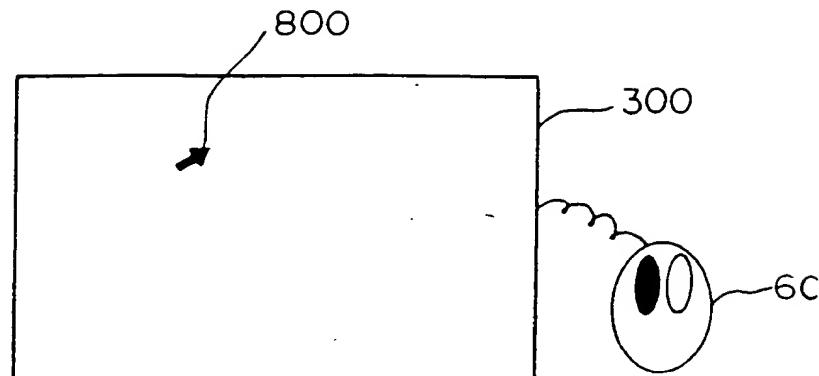


FIG. 31(b)

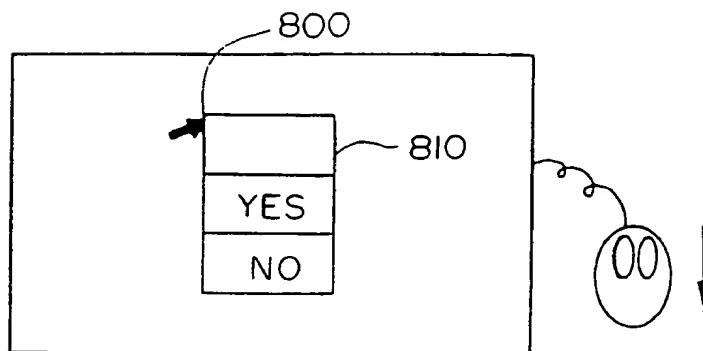


FIG. 31(c)

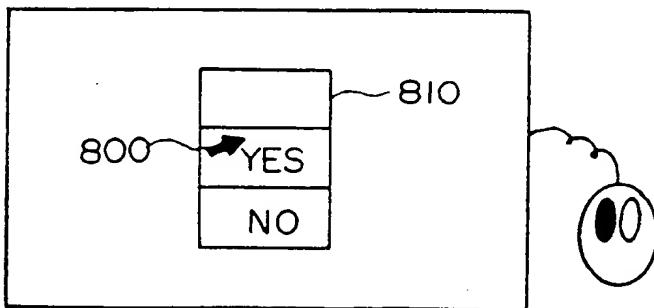


FIG. 31(d)

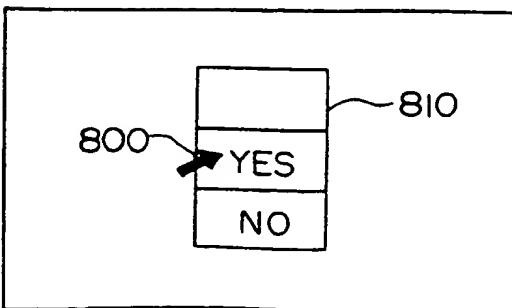


FIG. 32

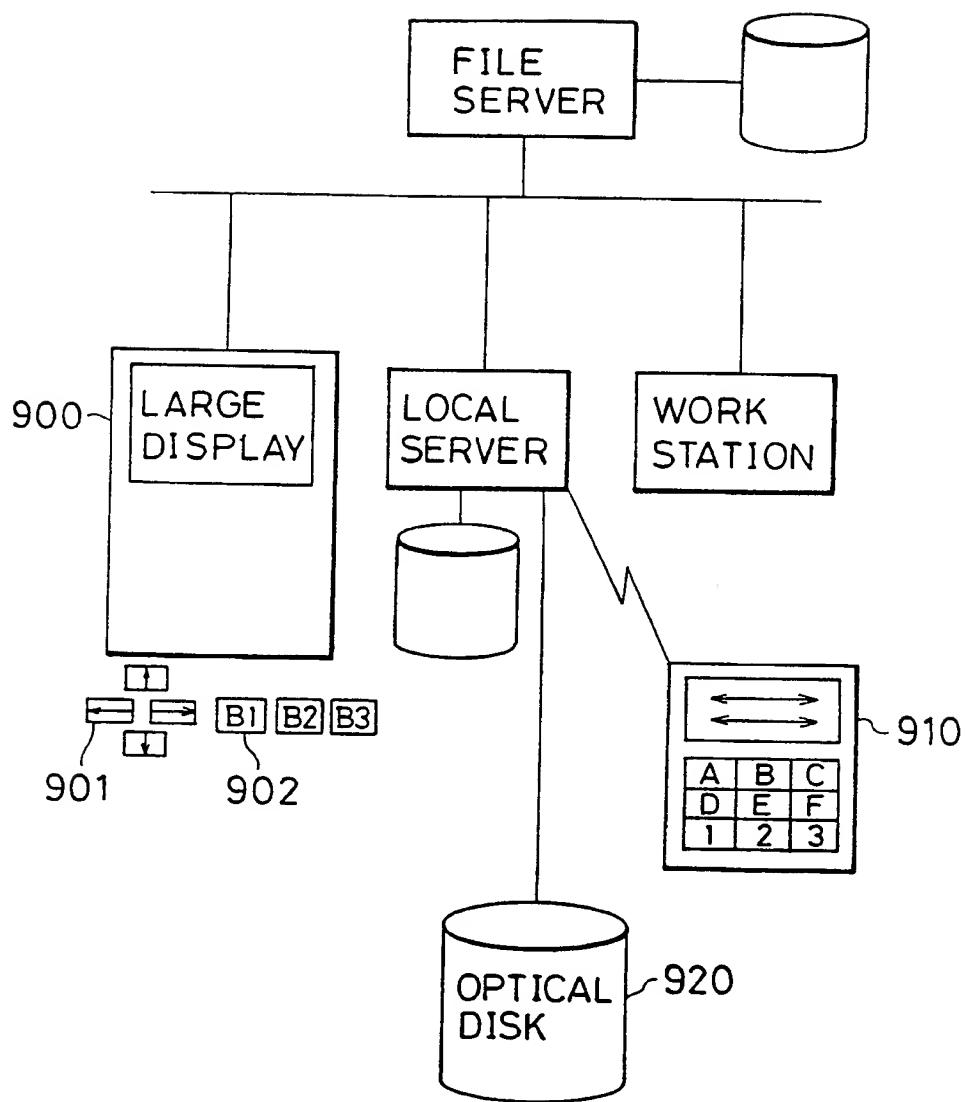


FIG. 33

37" LARGE DISPLAY IS OPERATED BY FOOT MOUSE.  
THE DISPLAY SHOWS ONE WEEK SCHEDULE PER PERSON.

YAMADA	0	12	24
1992/12/10(WED)A		↔	
1992/12/11(THU)A			
1992/12/12(FRI)A		↔	
1992/12/13(SAT)A		↓	
1992/12/14(SUN)B		↓	
1992/12/15(MON)B		↔	
1992/12/16(TUE)B		↔	

37 INCH DISPLAY

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FIG. 34

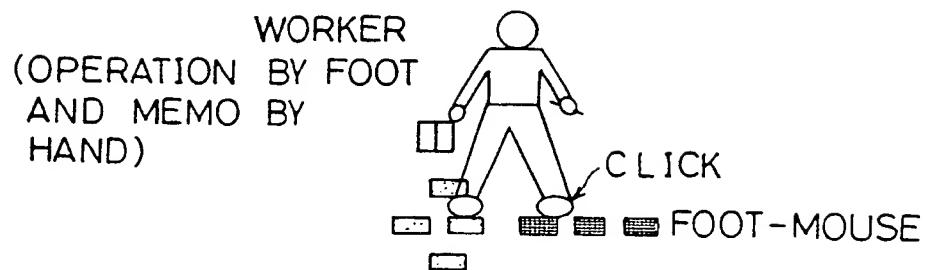
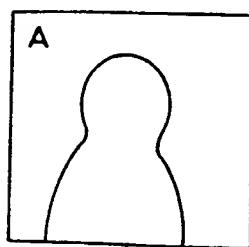


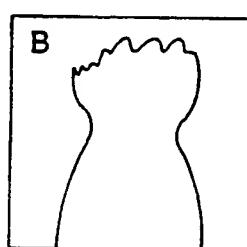
FIG. 35

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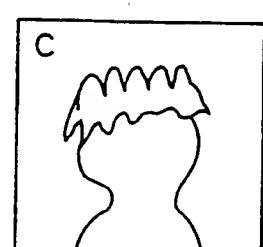
CANDIDATES TABLE			
A	MALE	40 YEARS OLD	-----
B	MALE	20 YEARS OLD	-----
C	FEMALE	35 YEARS OLD	-----
D	MALE	20 YEARS OLD	-----
E	FEMALE	32 YEARS OLD	-----



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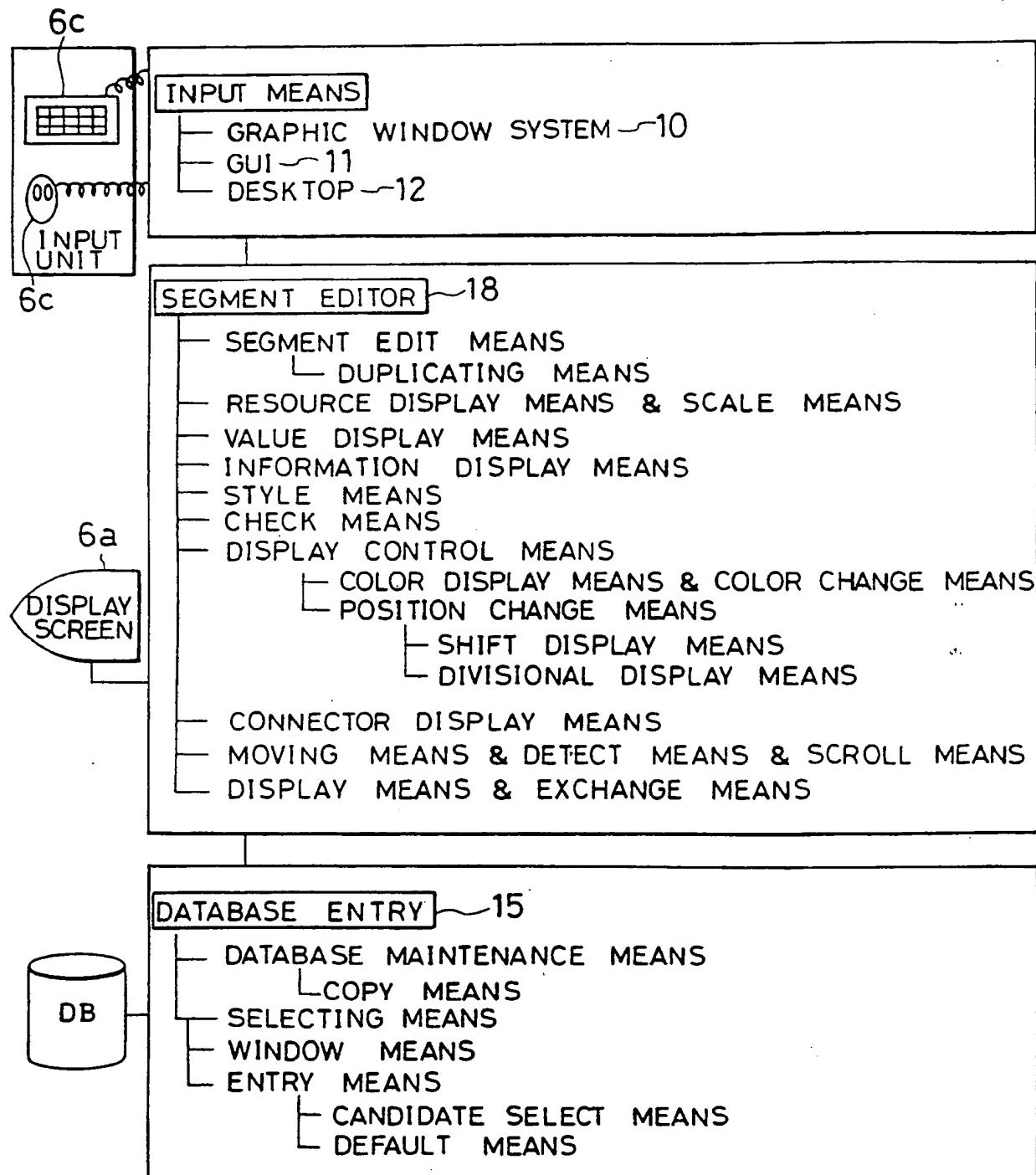


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FIG. 36



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FIG. 37(a)  
RELATED ART

301

NO.	ITEM NAME	SCHEDULE			REFE- RENCE
		90/04	05	06	
1	ITEM				

FIG. 37(b)  
RELATED ART

402 403 ↓ 401 301

NO.	ITEM NAME	S 05/10 E			REFE- RENCE
		90/04	05	06	
1	ITEM				

FIG. 37(c)  
RELATED ART

404

NO.	ITEM NAME	SCHEDULE			REFE- RENCE
		90/04	05	06	
1	ITEM				